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## CLAIMS

1. (Amended) An optical fiber drawing method of optical fiber comprising steps of setting an optical fiber preform in a furnace core tube and a preform container connected to an upper portion of the furnace core tube and drawing an optical fiber from one end of said preform by heating and softening,

wherein an upper portion of said preform container is provided with an auxiliary heater and cooling means for cooling said upper portion of said preform container, and said drawing step includes adjusting a cooling quantity [of heat dissipation from said preform container] by said cooling means.

- 2. (Amended) An optical fiber drawing method according to Claim 1, wherein the adjustment of the cooling quantity [of heat dissipation from said preform container] by said cooling means is carried out based on the temperature measured at least at one position inside said preform container.
- 3. (Amended) An optical fiber drawing method according to Claim 1, wherein said auxiliary heater is disposed movable relative to an outer wall of said preform container and said adjustment of the cooling quantity [of heat dissipation] by said cooling means includes adjustment of a distance between the outer wall of said preform container and said auxiliary

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heater.

- 4. (Amended) An optical fiber drawing method according to Claim 1, wherein said auxiliary heater is placed on an outer wall of said preform container, a heat insulator is disposed movable around the auxiliary heater, and said adjustment of the cooling quantity [of heat dissipation] by said cooling means includes adjustment of a distance between the outer wall of said preform container and said heat insulator.
- 5. (Amended) An optical fiber drawing method according to Claim 1, wherein said adjustment of the cooling quantity [of heat dissipation] by said cooling means includes adjustment of a quantity of a cooling fluid supplied to around an outer wall of said preform container.
- 6. An optical fiber drawing method according to Claim 5, wherein said cooling fluid is air or water.
- 7. (Amended) An optical fiber drawing furnace comprising a furnace core tube through which a fiber preform penetrates vertically, a heater disposed around said furnace core tube, and a preform container connected to an upper portion of said furnace core tube so as to be integral with said furnace core tube to form a semi-closed space opening in part at a lower end, for housing said fiber preform inside,

said fiber drawing furnace further comprising:

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an auxiliary heater disposed at an upper portion of said preform container; and

[dissipation adjusting] cooling means for [adjusting a quantity of heat dissipation from] cooling the upper portion of said preform container.

- 8. (Amended) An optical fiber drawing furnace according to Claim 7, further comprising at least one temperature sensor for measuring an internal temperature in the upper portion of said preform container, wherein said [dissipation adjusting] cooling means includes a control unit for adjusting the cooling quantity [of heat dissipation], based on the temperature measured by said temperature sensor.
- 9. (Amended) An optical fiber drawing furnace according to Claim 7, [further comprising] wherein said cooling means is air-providing means for supplying cooling air into clearance between said auxiliary heater and an outer wall of said preform container.
- 10. (Amended) An optical fiber drawing furnace according to Claim 7, wherein said cooling mean comprises [further comprising] heater moving means for moving said auxiliary heater to change a distance relative to said preform container.
  - 11. An optical fiber drawing furnace according

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to Claim 10, further comprising air-providing means for supplying cooling air into clearance between said preform container and said auxiliary heater, created by movement of said auxiliary heater.

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- 12. (Amended) An optical fiber drawing furnace according to Claim 7, wherein said auxiliary heater comprises a heating element and a heat insulator formed around the heating element, [the fiber drawing furnace further comprising] said cooling means is insulator moving means for moving said heat insulator to change a distance relative to said preform container.
- 13. An optical fiber drawing furnace according to Claim 12, further comprising air-providing means for supplying cooling air into clearance between said heat insulator and said auxiliary heater, created by movement of said heat insulator.
- 14. (Amended) An optical fiber drawing furnace according to Claim 7, wherein said cooling means further [comprising] comprises a cooling fluid circulation path formed around said preform container and letting a cooling fluid flow inside, and supply means for supplying said cooling fluid into said circulation path.
- 15. An optical fiber drawing furnace according to Claim 14, wherein said cooling fluid is air or water.